# SPECIFICATION FOR APPROVAL

CUSTOMER: oomlout

ARTICLE:  $\phi$ 5 Round Clolor diffused Red LED

PART NO: FLR-50A03-SR7

DATE: 2009-07-10

CUSTOMER MODEL:

Rohs Product

# **Authorized Signature**

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

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## SHENZHEN FURUIER PHOTOELECTRIC CO., LTD.

PRODUCTMODEL: FLR-50A03-SR7

LED Lamp

#### □Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current	IFP	80	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	60	mW
Operation Temperature	Topr	-35~+80	C
Storage Temperature	Tstg	-40 <sup>~</sup> +80	C
Lead Soldering Temperature	Tsol	Max. 260° for 3sec Max.	

\*IFP Conditions:Pulse Width < 10msec duty < 1/10

### TypicalOptical/ElectricalCharacteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=20mA		2.0	2. 3	V
Reverse Current	IF	V <sub>R</sub> =5V			10	uA
50% Power Angle	<b>2</b> θ 1/2	IF=20mA		25		deg
Luminous Intensity	IV	IF=20mA	2500	3500		mcd
Peak Wavelength	λр	IF=20mA	620	623	625	
Recommend Forward Current	If(rec)			10~20		mA

#### Notes:

- 1. Absolute maximum ratings Ta=25° C.
- 2. Tolerance of measurement of forward voltage  $\pm 0.1$ V.
- 3. Tolerance of measurement of peak Wavelength  $\pm 2.0$ nm.
- 4. Tolerance of measurement of luminous intensity  $\pm 15\%$ .

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<sup>\*</sup>Tsol Conditions: 4mm from the base of the epoxy bulb

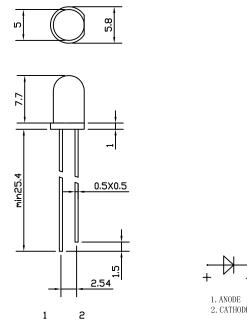


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#### Package Dimensions And Materials



□ 0.5 SQUARE\*2

Chip		Lens Color		
Dice Material	Emitting Color	rens coloi		
AlGaInP	Red	White diffused		

#### Notes:

- 1. All dimension units are millimeters
- 2. All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted
- 3. An epoxy meniscus may extend about 1.5mm down the leads
- 4. Burr around bottom of epoxy may be 0.5mm max

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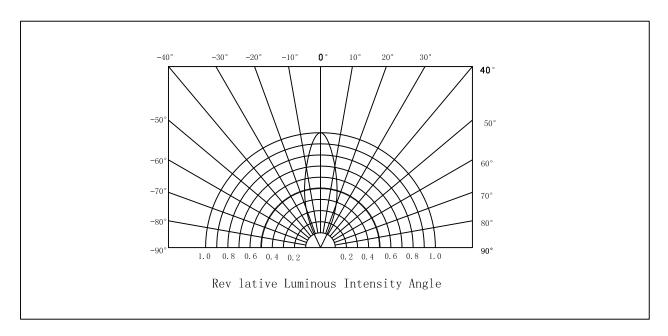


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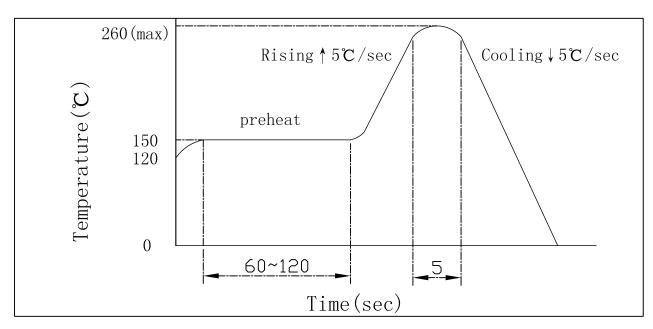
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### □Spatial Distribution



#### $\square$ Reflow Temp/Time



#### □Soldering iron

Basic spec is≤5sec when 260℃. If temperature is higher, time should be shorter (+10℃-1sec) Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. surface temperature of the device should be under 230℃

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